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FIG. 1A

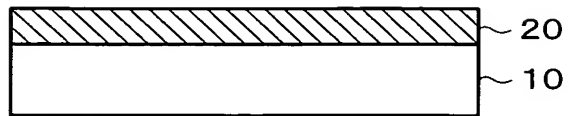


FIG. 1B

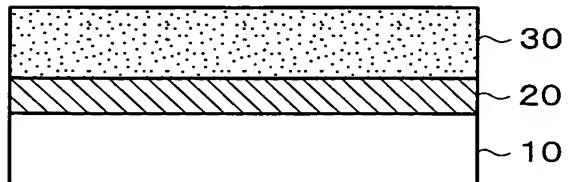


FIG. 1C

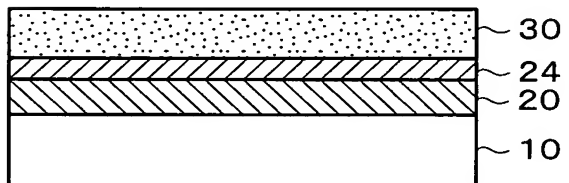


FIG. 1D

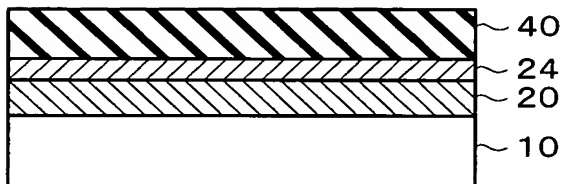


FIG. 1E

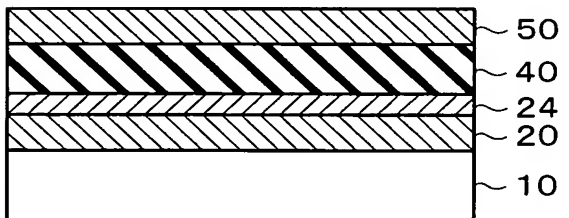
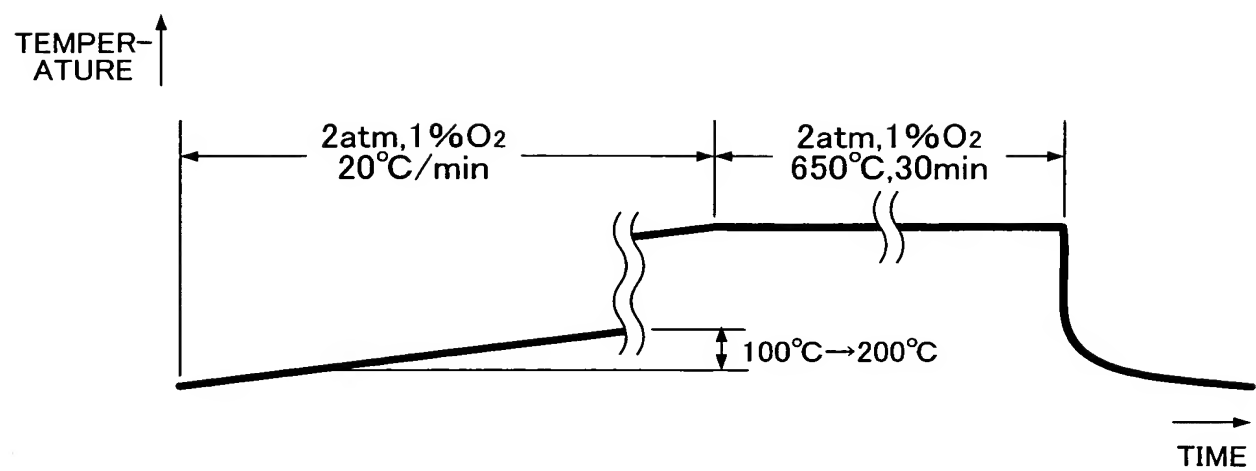
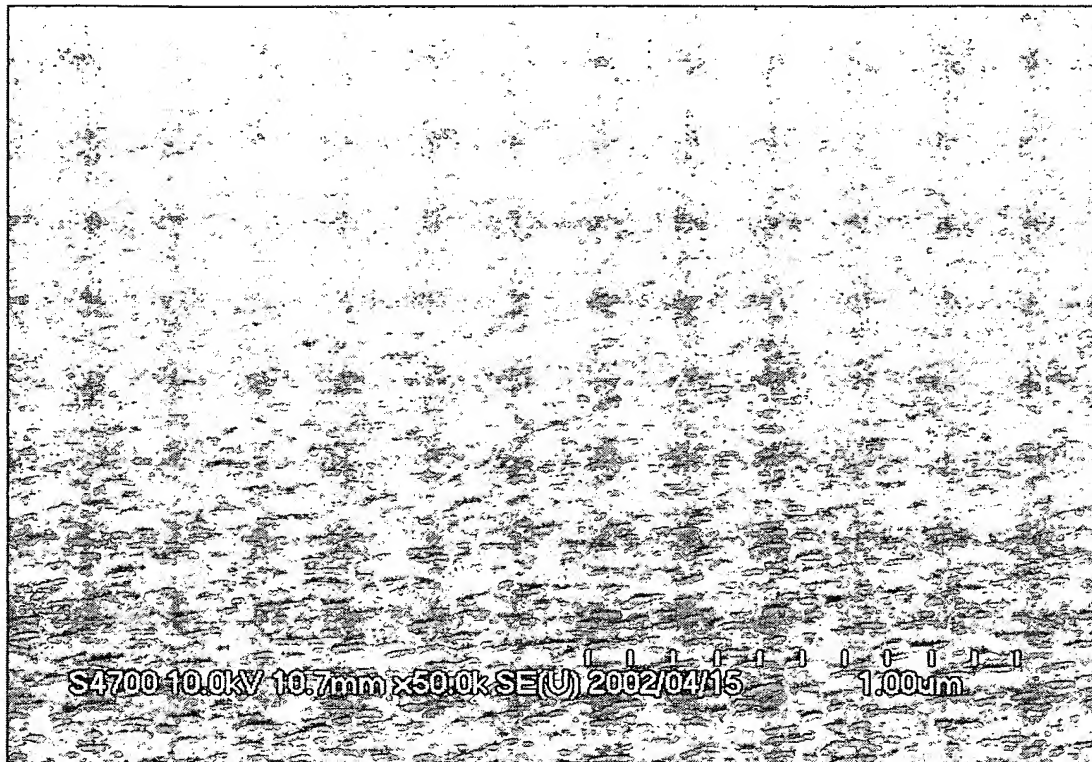


FIG. 2



**FIG. 3**



**AVERAGE PARTICLE DIAMETER: 50mn**

**FIG. 4**

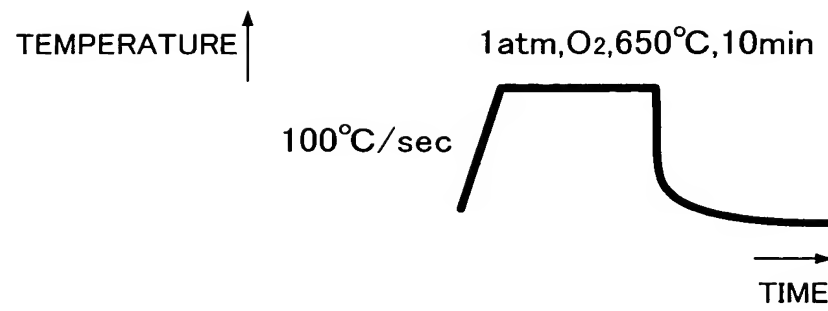


FIG. 5A

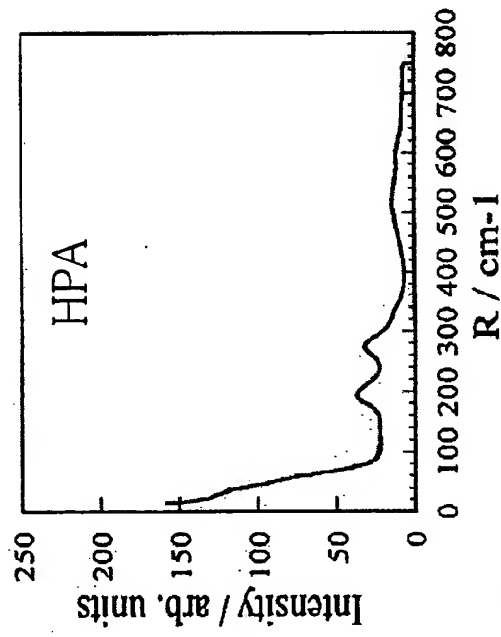


FIG. 5B

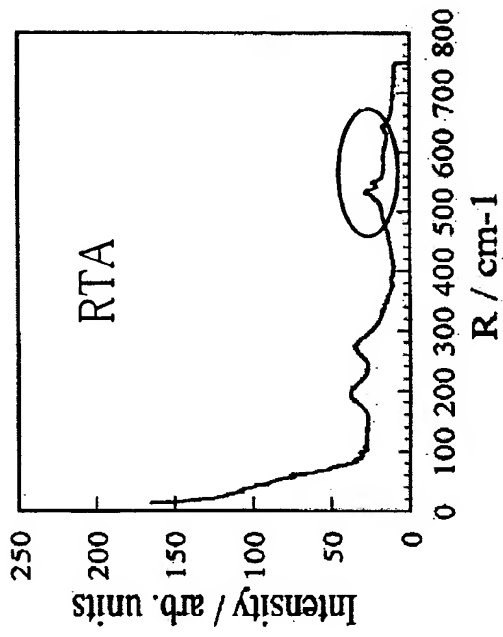


FIG. 5C

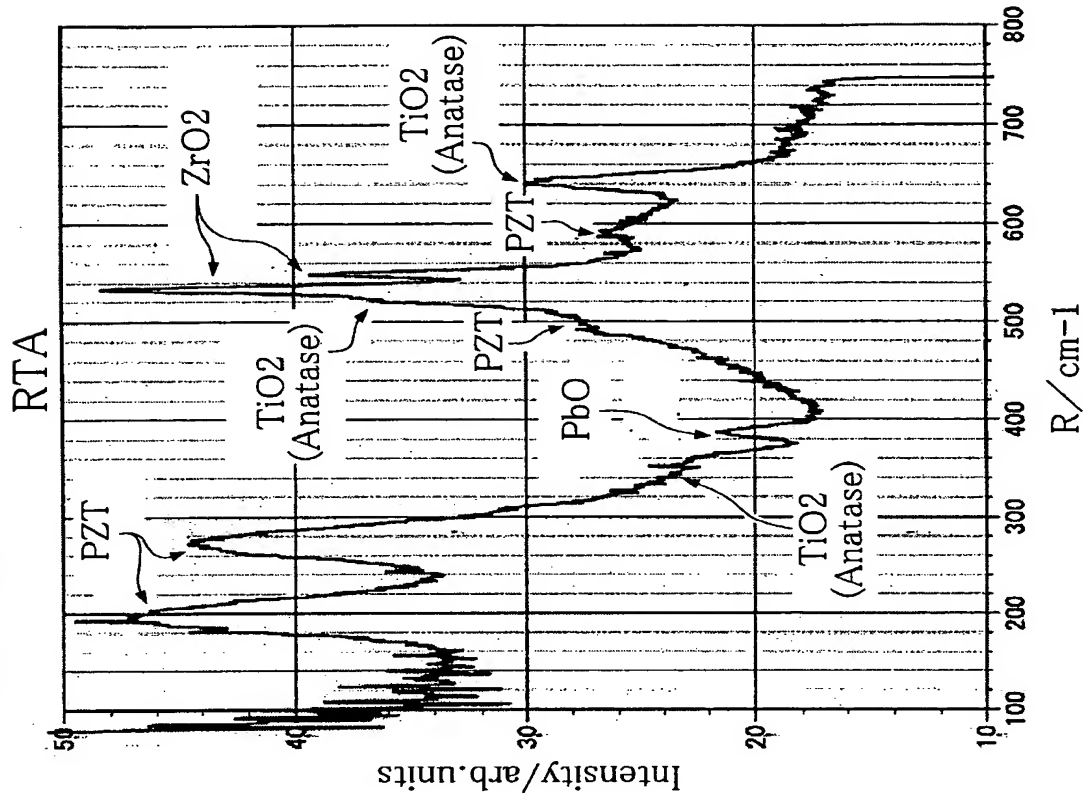
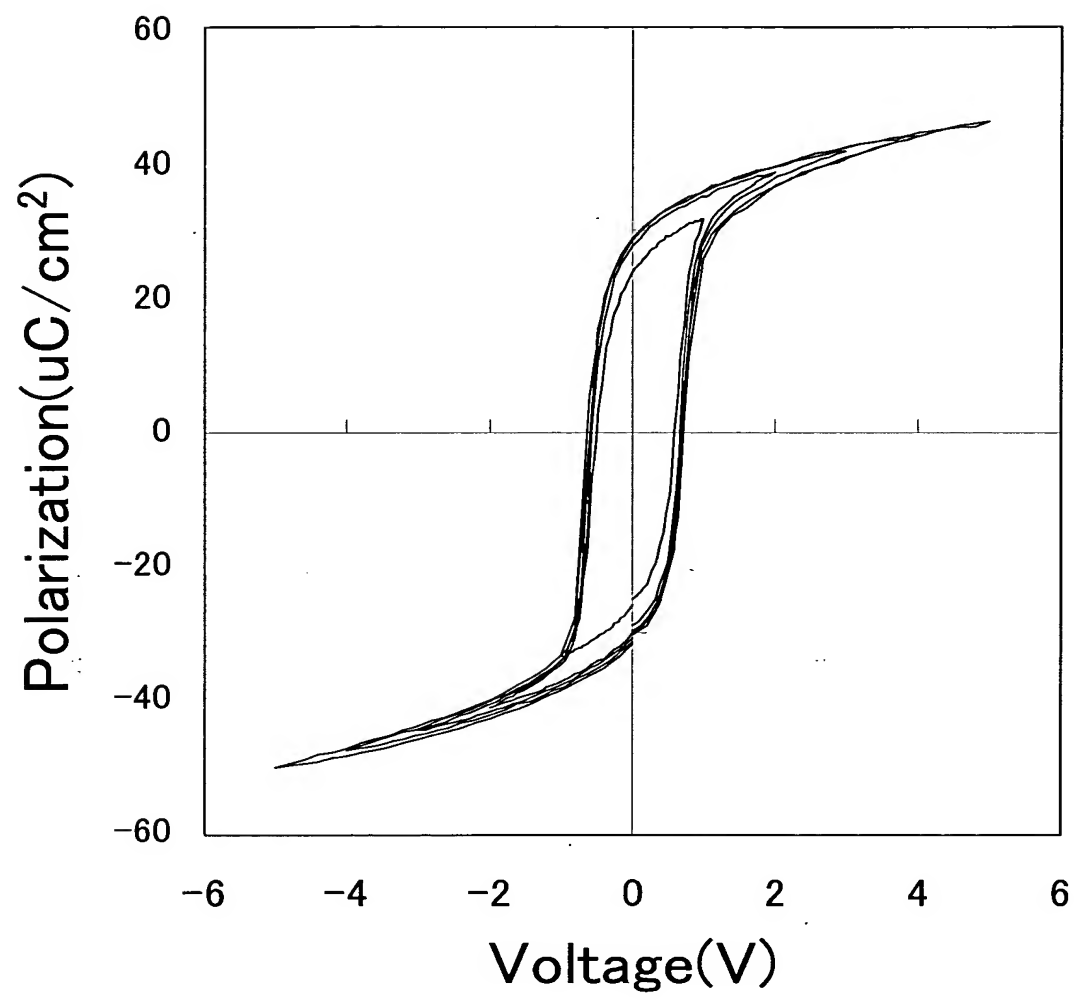
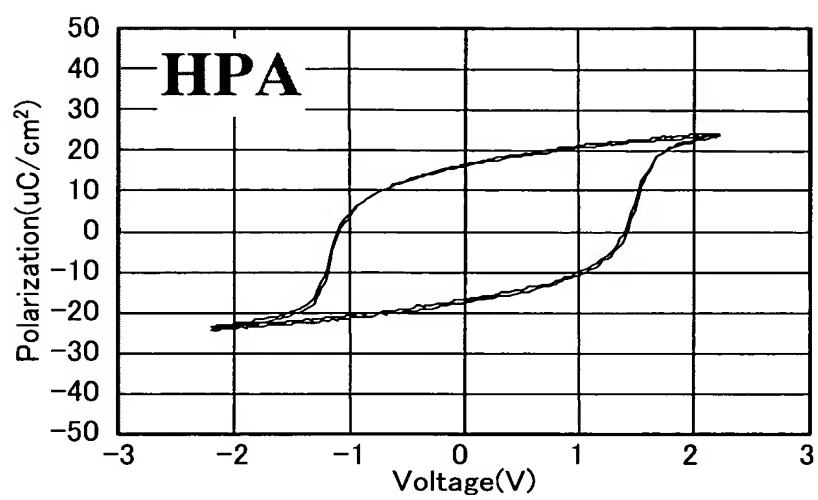


FIG. 6



**FIG. 7A**



**FIG. 7B**

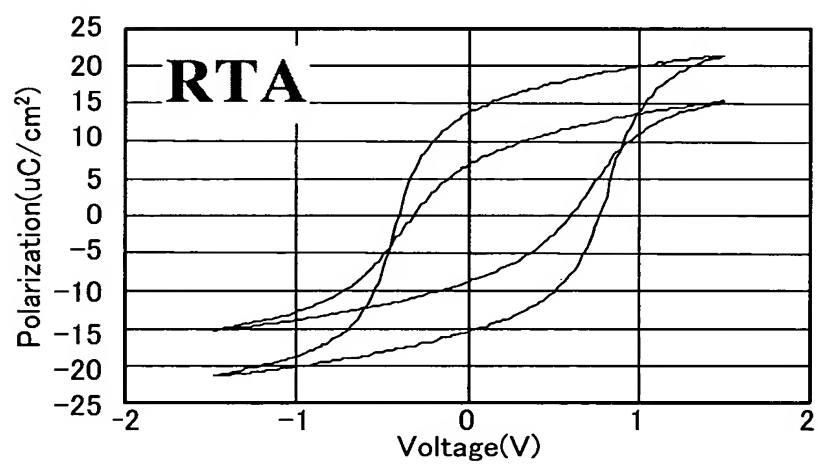




FIG. 8A

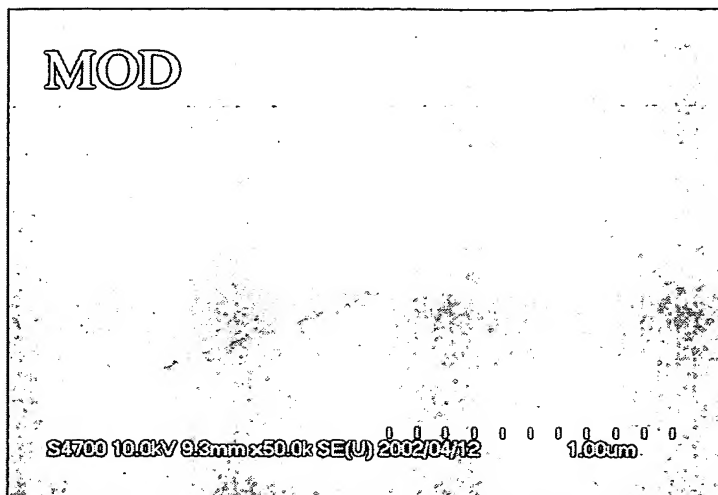


FIG. 8B

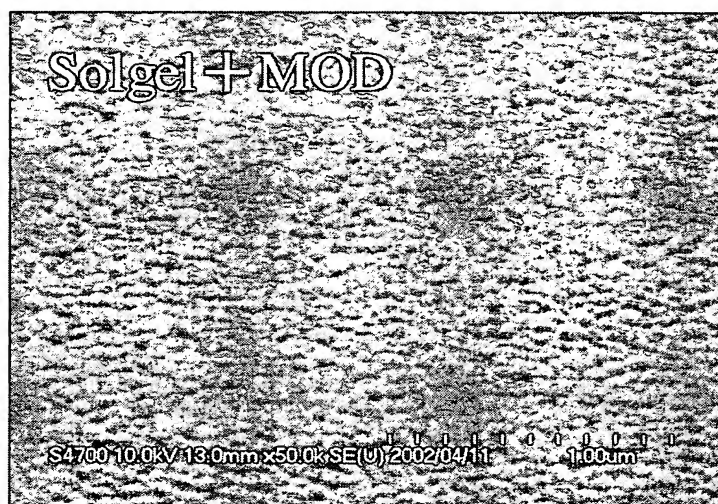


FIG. 8C

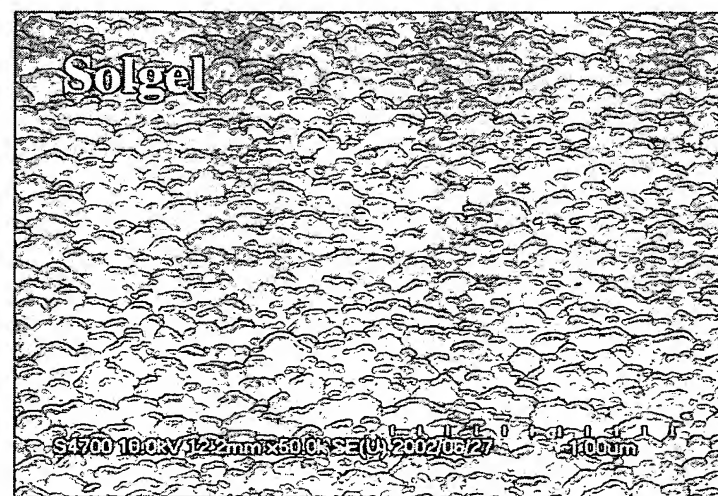
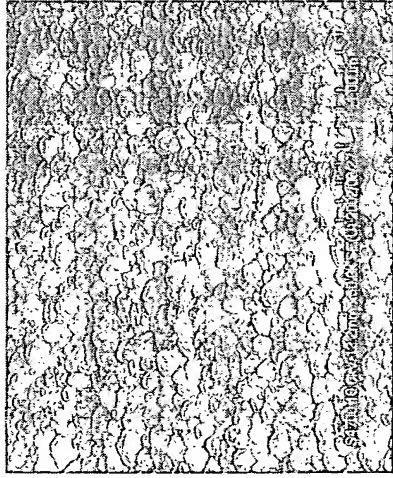


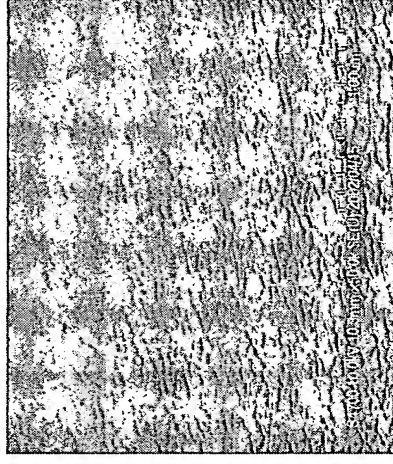
FIG. 9A



ONLY SolGel

AVERAGE PARTICLE DIAMETER: 100 nm

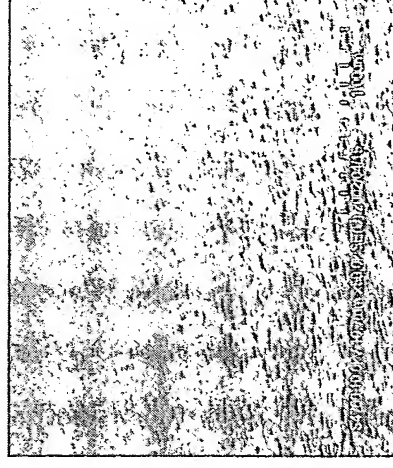
FIG. 9B



Solgel:MOD=2:1

AVERAGE PARTICLE DIAMETER: 30 nm

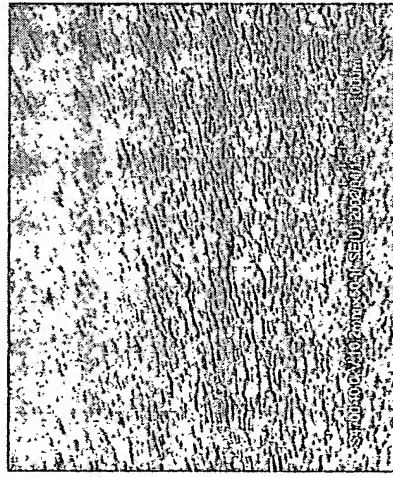
FIG. 9C



Solgel:MOD=1:1

AVERAGE PARTICLE DIAMETER: 50 nm

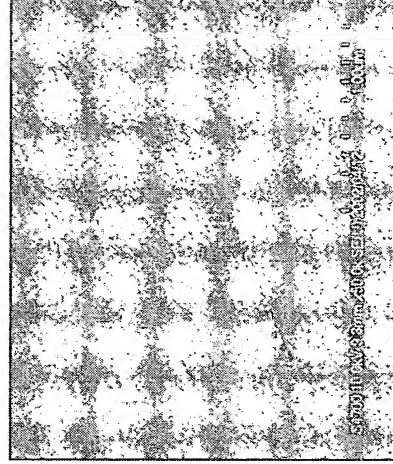
FIG. 9D



Solgel:MOD=1:2

AVERAGE PARTICLE DIAMETER: 70 nm

FIG. 9E



ONLY MOD

AVERAGE PARTICLE DIAMETER: 2 μm

FIG. 10A

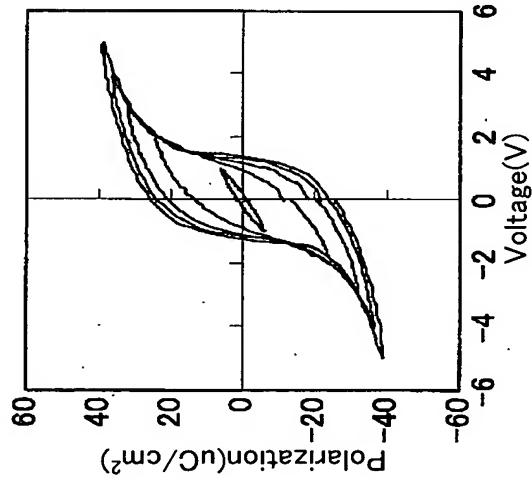
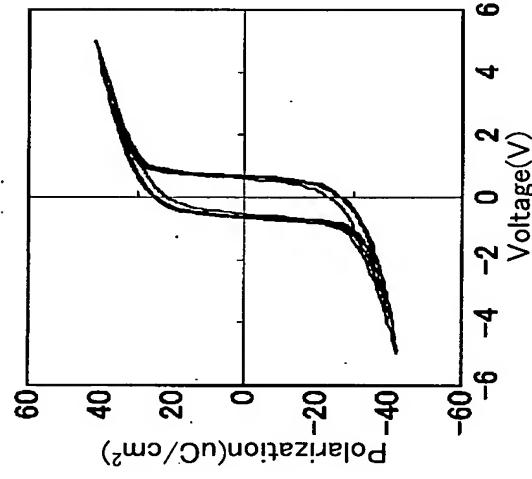
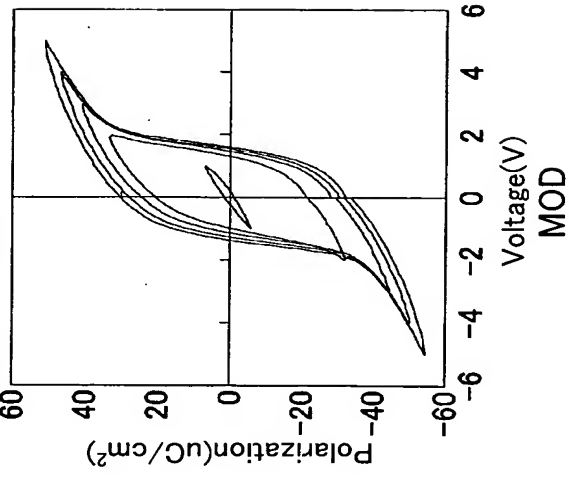


FIG. 10B



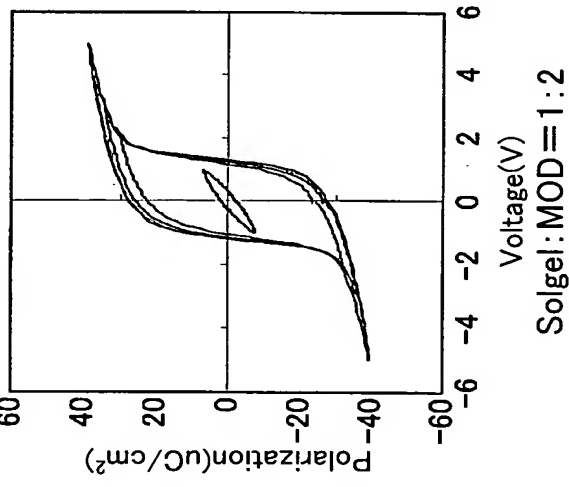
Solgel:MOD=2:1

FIG. 10E



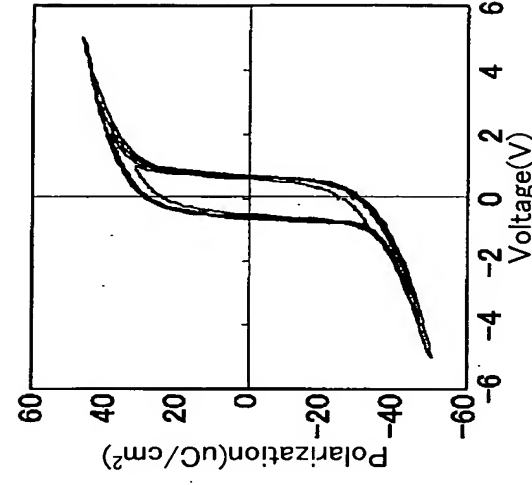
MOD

FIG. 10D



Solgel:MOD=1:2

FIG. 10C



Solgel:MOD=1:1

FIG. 11A

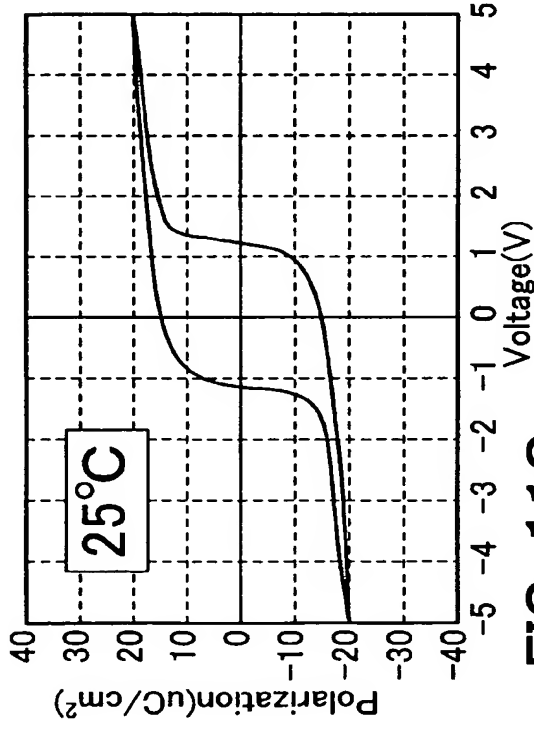


FIG. 11B

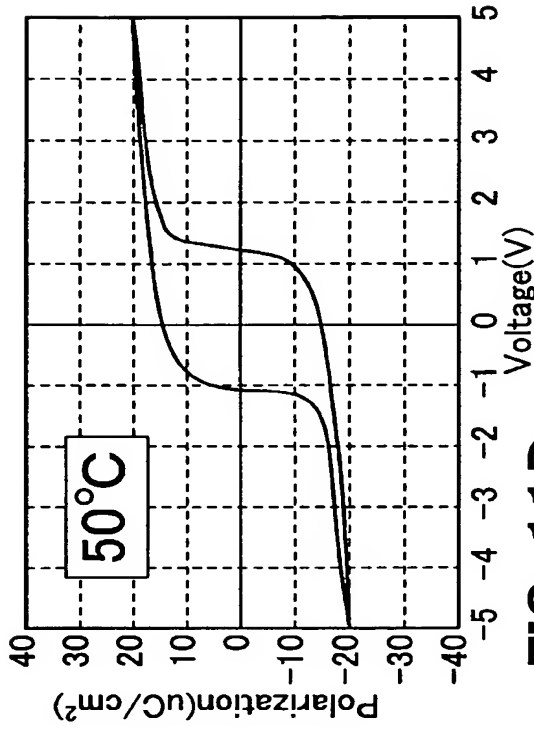


FIG. 11C

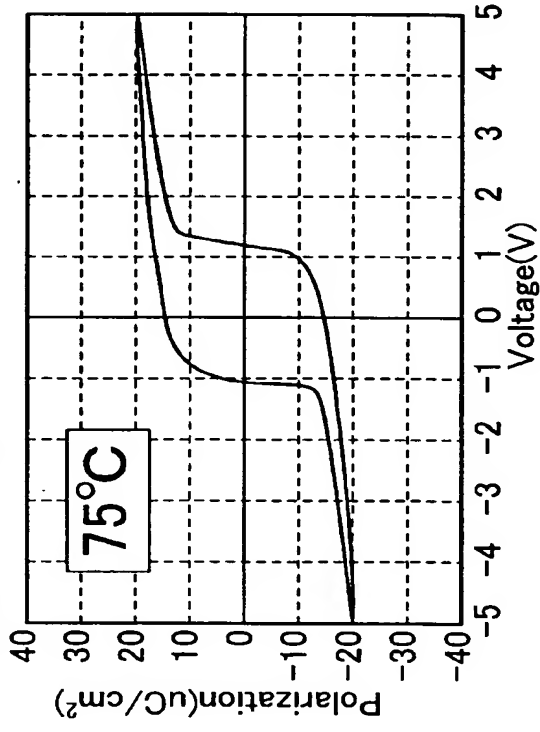


FIG. 11D

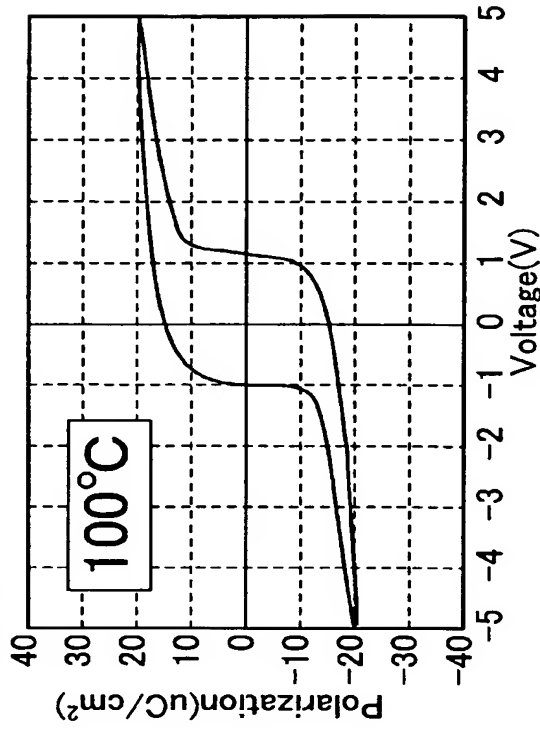
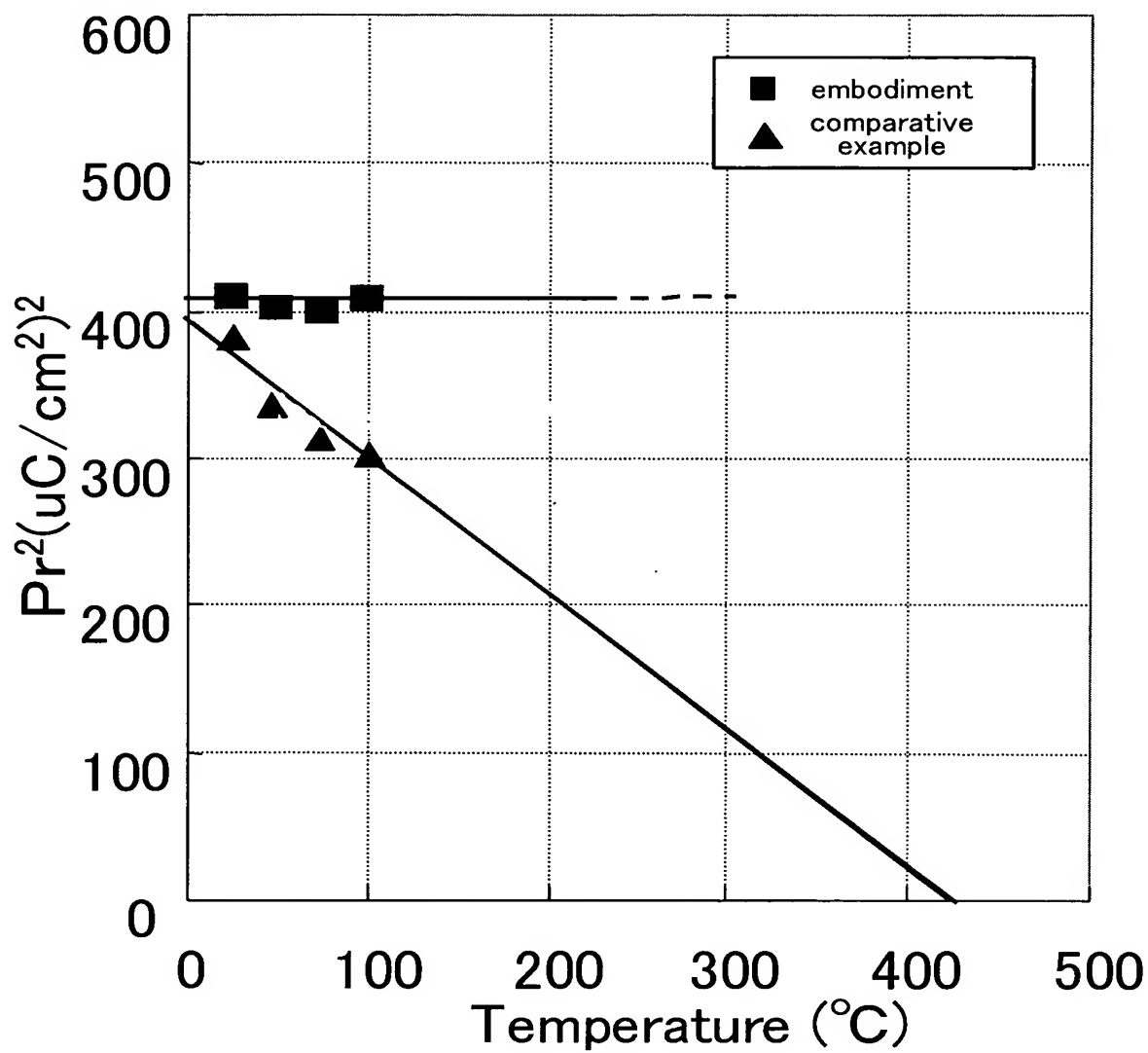
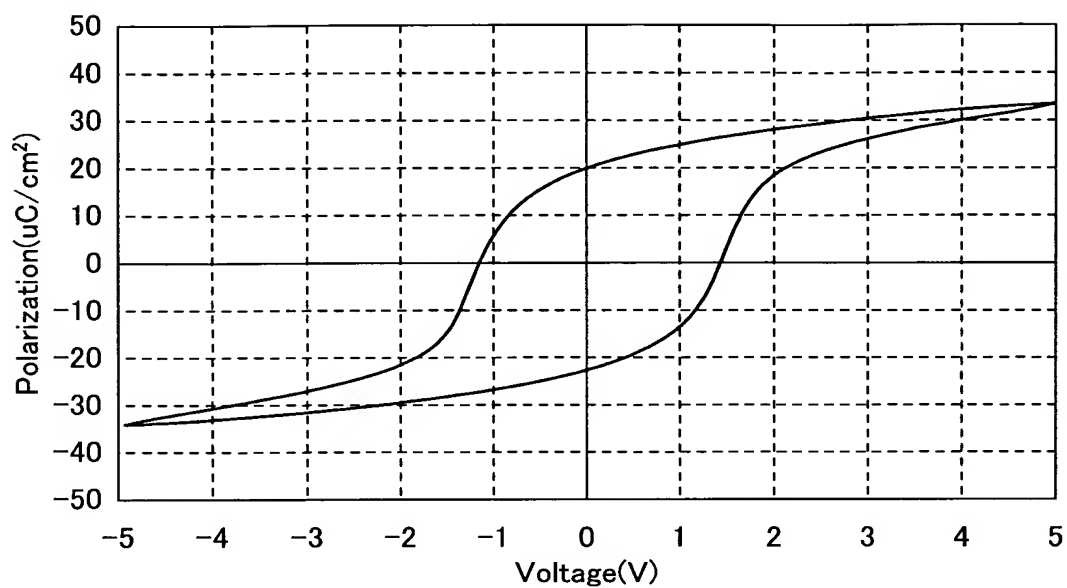


FIG. 12



**FIG. 13A**  
**MOD**



**FIG. 13B**  
**Solgel+MOD**

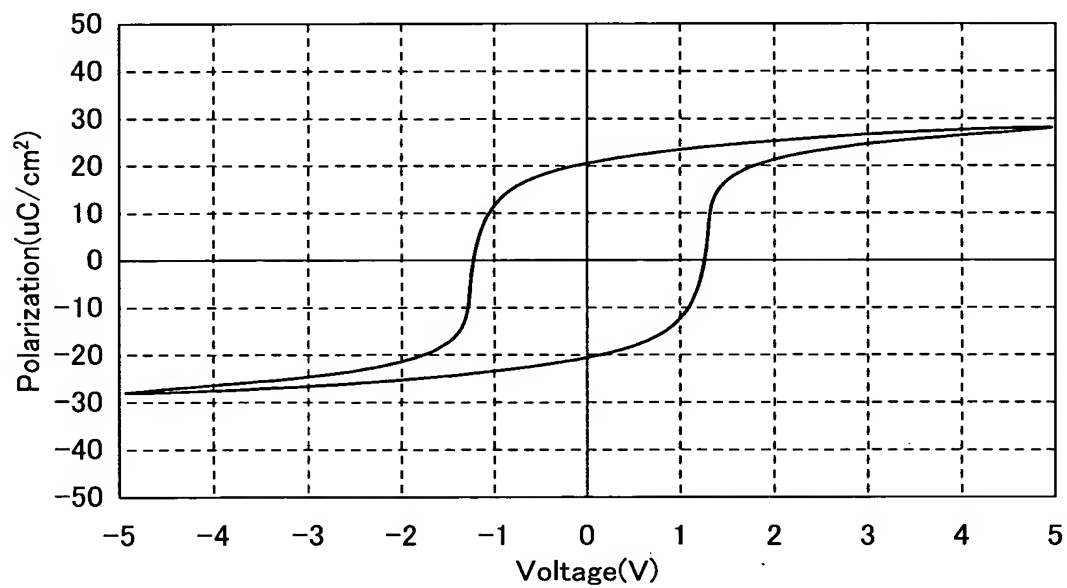


FIG. 14A

580°C

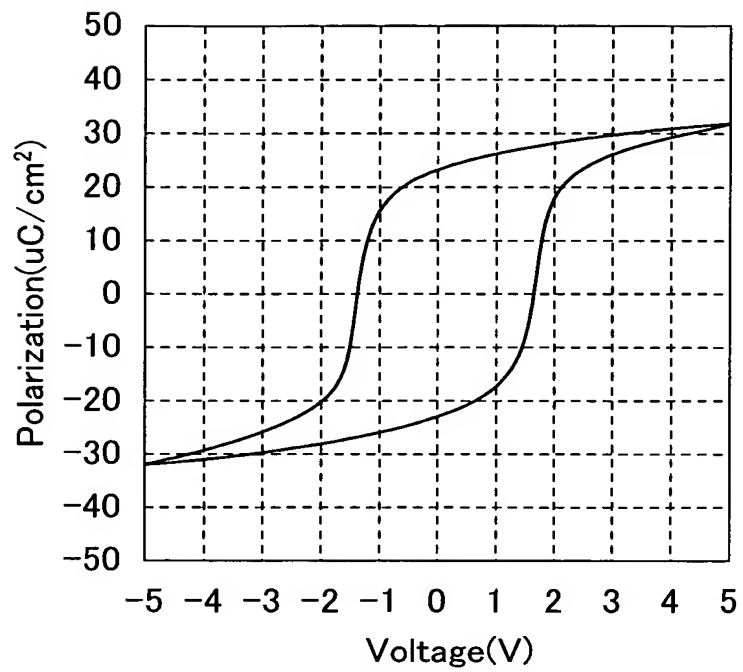


FIG. 14B

425°C

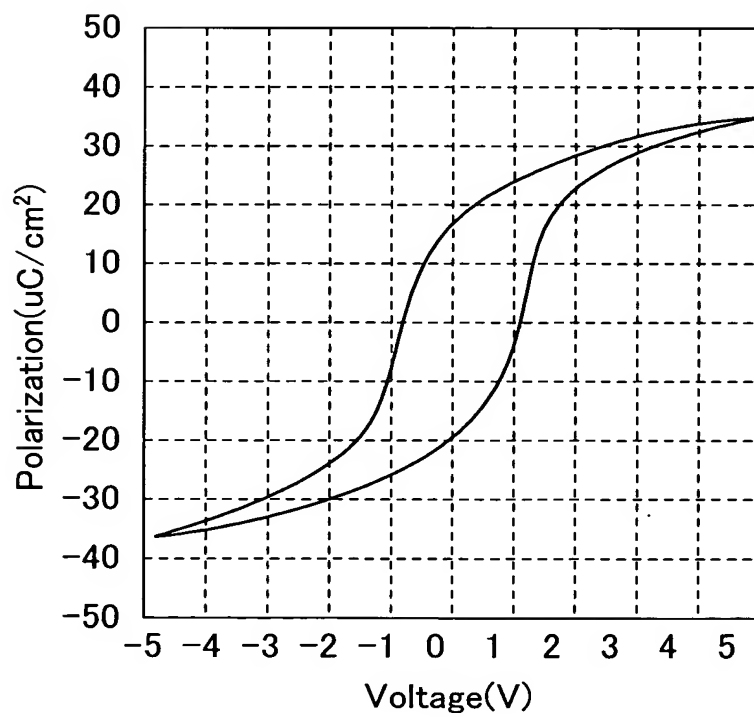


FIG. 15A



FIG. 15B

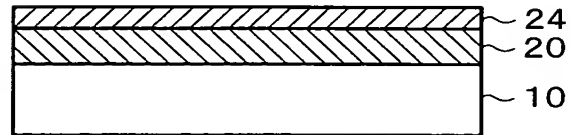


FIG. 15C

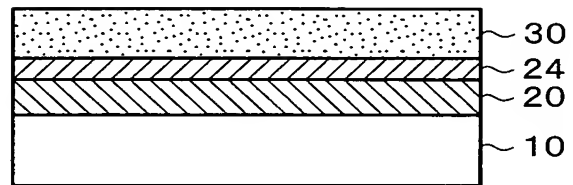


FIG. 15D

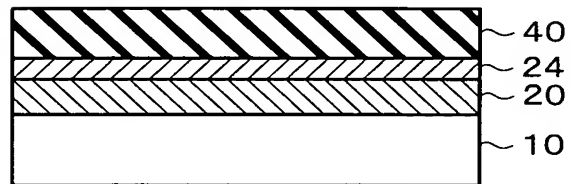


FIG. 15E

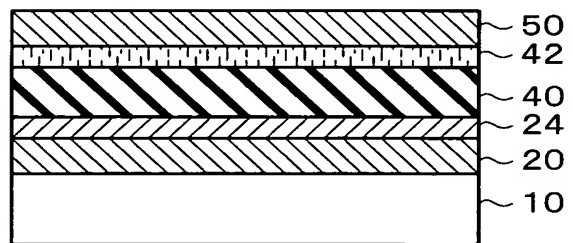


FIG. 15F

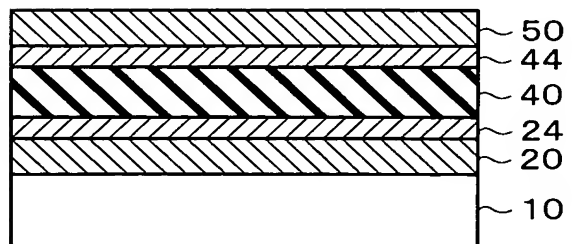




FIG. 16

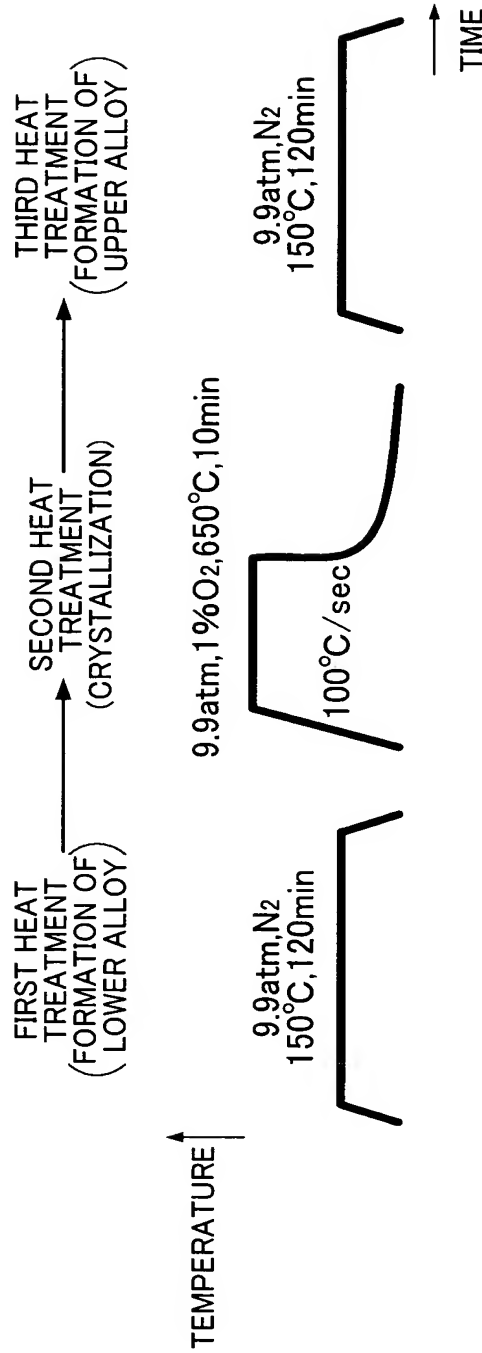


FIG. 17A

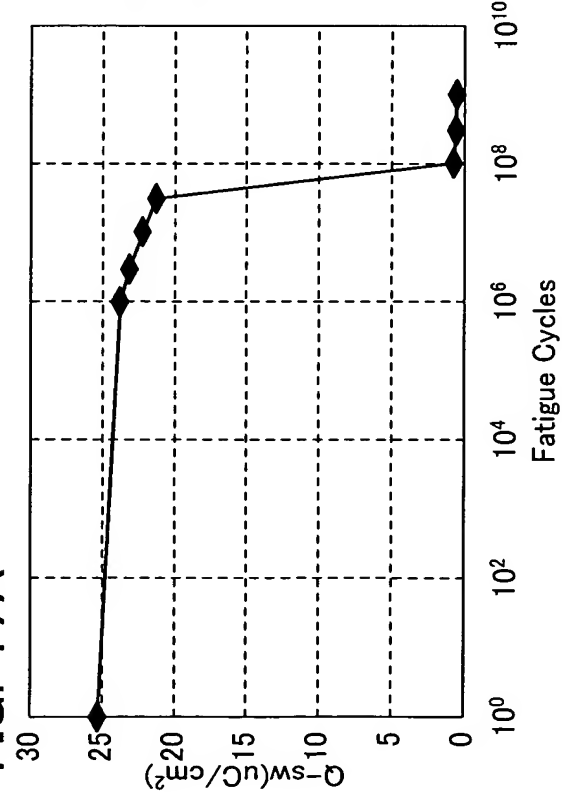


FIG. 17C

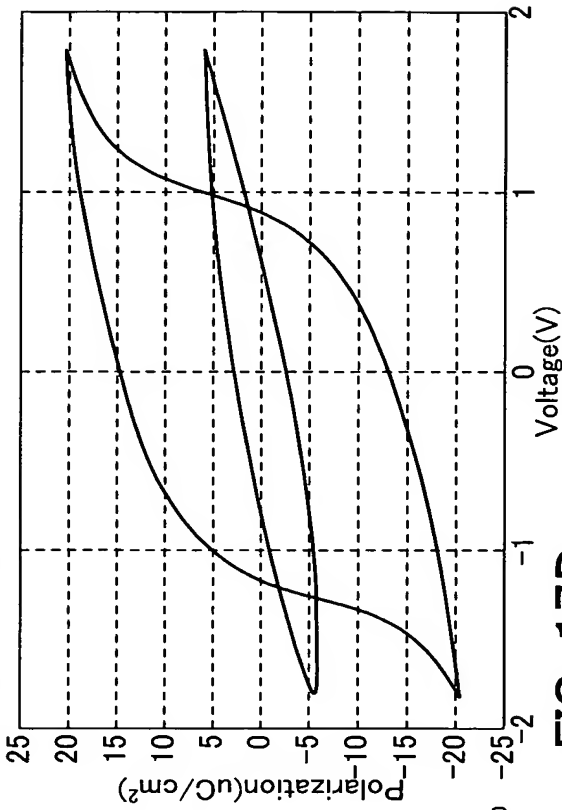


FIG. 17B

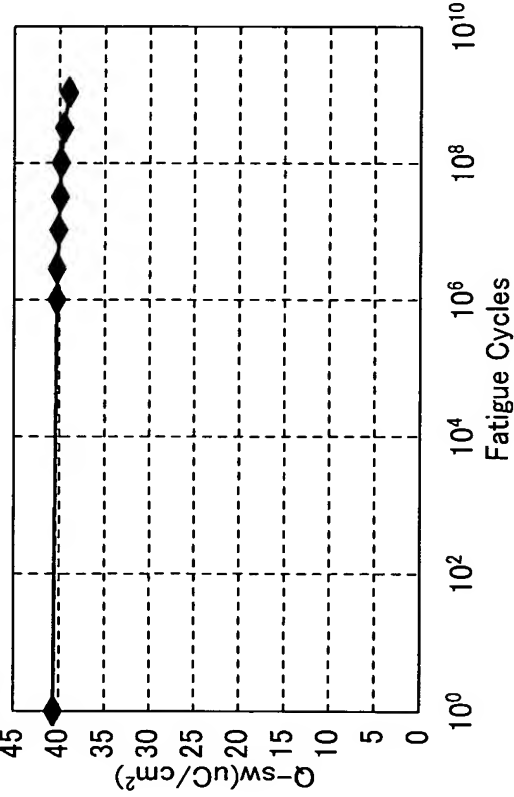


FIG. 17D

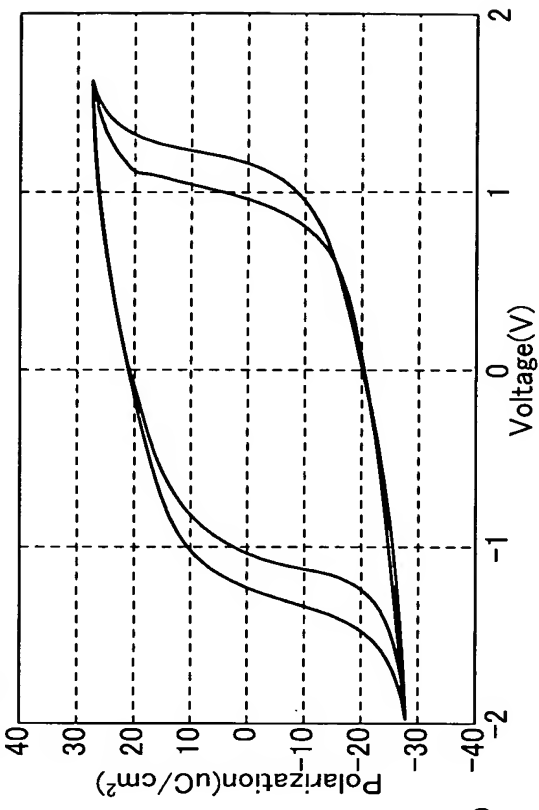


FIG. 18

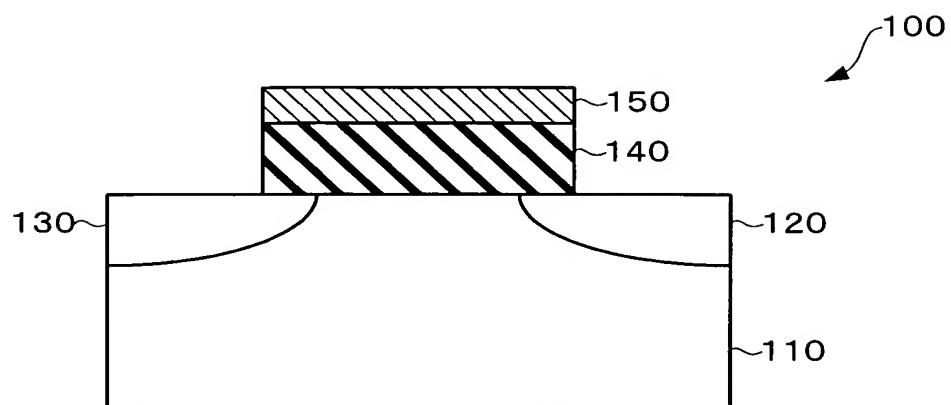


FIG. 19A

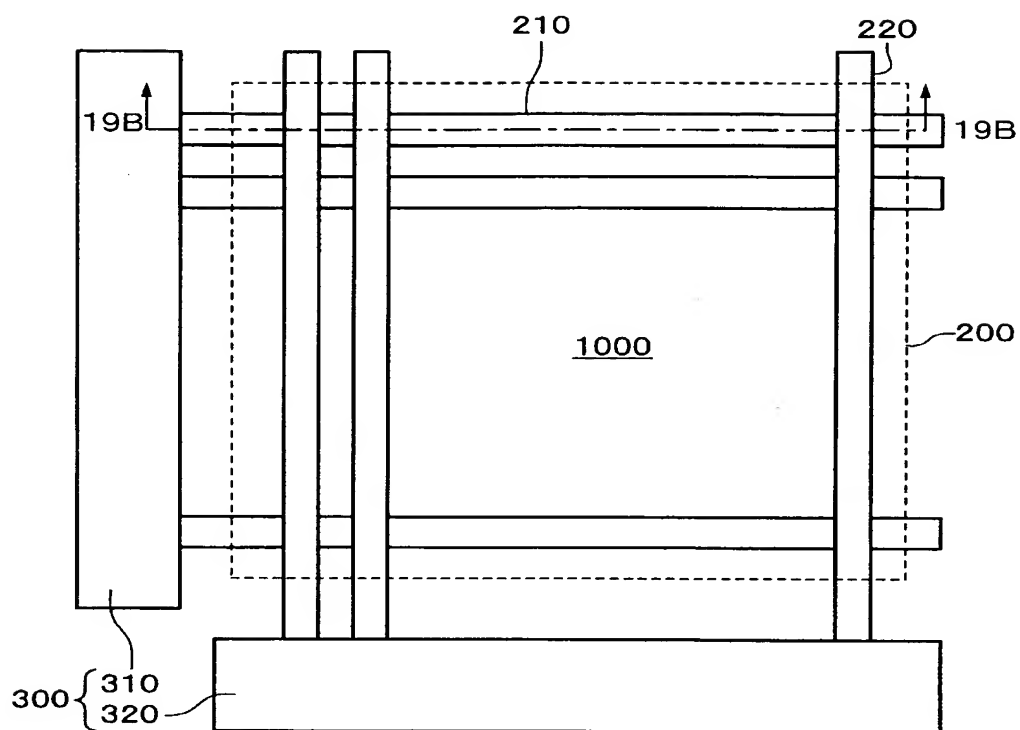


FIG. 19B

